aray							2	1	dan
Work Orde Tuesday, Decem				*94	275*	(Shi	PJC	Page 1
Revision ID:	D412-705-0. Driveshaft Tu	15		Accept	*N900	004010	n * ^s	Setup Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	12/4/2012 12/4/2012	Start Qty: 2.00 Req'd Qty: 2.00	-		Cust Item Customer:				14(1)
Approvals:	Process Pla	an: MCS	Date: 12-12 Date:			Pate:	- -	Run Start Stop	"NR1"
Sequence ID/ Work Center II	D	Operation Description	:	Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty		Reject Insp. Number Stamp
Draw Nbr	Rev	vision Nbr							
N/A	Rev	/ C	r53		ASI				
1 \\n^ DC Document Control		DOCUMENT CONT Memo Photoco	FROL py bluefile & type labels	0.00	15 12 / 12 CHG 005		Ş	4)4	2) 2)
*110		Pick Kit		0.00			<u> </u>		
Packaging Packaging		Memo		0.00				•:	, 12-12-4
*120		QC4- 100% Inspect I	kits for completeness	0.00 DA	. =		2		
QC Quality Control		Memo		1000 Ja 1	ae				

DQA:	Date:	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

									(QA Closed:	Date	:		
Work Order	r:				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No	Part No. So Use-a NCR No. Work Order Upo							Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite		Water Jet Engineering Prod. Eng. Coor. Rec/Store/Packaging Oth Supplier				
Root				Descri	ption of work order update	Initia	al	Action	Т	Sign &				
Cause	Date	Step	Qty	i	or Non-conformance	Chief (Eng	Description	- 1	Date	Verification	QC Inspector		
Doc/Data									7					
Equip/Tooling														
Operator	7													
Material														
Setup														
Other									l					
Process														
Supplier		1					· 3							
Training							3							
Unapproved														
					F	AULT CA	ATE	GORY						
Landing	g Gear				General			_			_			
	Bending				Bend	Gra	in			Ovalized		Pressure/Forced		
	Centre No	ot Concer	ntric to (o/s	BOM/Route	Har	dwa	re	ٰٰٰٰٰٰ	Over/Under	tolerance	Temperature/Cure		
	Cracks				Broken/Damaged	Insp	oecti	on Incomplete	_	Part Incorred	ct _	Weld		
	Crushed/	Crimped.			Burrs	Inst	truct	ions Incomplete/Unclear	_	Part Lost/Mi	ssing	Wrong Stock Pulled		
	Cuffs				Contamination	Ма	inte	nance		Part Moved				
	Heat Trea	ət			Countersink	Mis	labe	led		Positioned V	Vrong			
	Inspectio	n Strip in	Tube		Cut Too Short	Mis	reac	1		Power Loss/	Surge	Other		
	Ripples in	n Bend			Drill Holes	Off	set		_					
	Torque Waves in Extrusion Drawing					Out of Calibration								
	Turning S	equence			Finish	Out	t of S	Sequence						
	M/ava/Tu	rict in Tub	30	[_	Teolio	1 100	tcido	Dimonsions						

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Orde Tuesday, Decem				*942	75*	9	hy	Toda	ay	Page 2
Item ID: Revision ID:	D412-705-0	015		Accept	*N900040	1100°	k s	etup Start	*N	S1*
Item Name:	Driveshaft To	unnel Modification						Stop	*N	S2*
Start Date:	12/4/2012	Start Qty: 2.00	*2*		Cust Item ID:					
Required Date: Reference:	: 12/4/2012	Req'd Qty: 2.00	*2*		Customer:					
Approvals:		lan: MVF	Date: 12-12-04		Date:		R	un Start Stop		R1*
	QC:		Date:	SPC (Y/N):	Date:			жор	*N	R2*
Sequence ID/ Work Center II	D	Operation Description	7	Set Up/ Run Hours	Tool ID Tool #		Accept Qty		Reject Number	Insp. Stamp
130				0.00				4	1	4
130		Packaging		0.00		Ć	J7)		والحيا	NAS .
Packaging Packaging		Memo Identify and 015Location	pack for shipping as per Pin:PPP Rev:					•		3-89
140		QC21- Final Inspection	- Work Order Release	0.00					1	1 -10
*14 0 *		Memo		0.00				10	113	1129
Quality Control									M	W O
									(V11249 W 2-12-12

												DQA:	Date:		
NCR: \	'es	/ No					WORK ORDER NON-C	O	NFORM	AANCE / UPD	ATE				
												QA Closed:	Date:	-	
Work Orde	er:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part N	- lo						Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Othe	
Root					Des	crip	otion of work order update	ı	nitial	Acti	on	Sign &			
Cause		Date	Step	Qty		О	r Non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspe	ctor
oc/Data quip/Tooling perator flaterial etup ther rocess upplier raining															
			, .				F	AUL	T CATE	GORY					
Landi	ng G	iear					General	102	CATE	30K1					
		Bending Centre No Cracks Crushed/C Cuffs Heat Trea Inspection Ripples in Torque W	Crimped. t n Strip in Bend laves in E	Tube			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Instruct Mainte Mislabe Misread Offset Out of O	on Incomplete ions Incomplete/U nance led I	Inclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct sissing Vrong	Pressure/Force Temperature/ Weld Wrong Stock I	'Cure
	- 1	Turning Se	equence				Finish		Jour of S	Sequence					

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

Tuesday, December 04, 2012 1:50:35 PM

Work Order ID:

94275

Parent Item:

D412-705-015

Parent Item Name:

Driveshaft Tunnel Modification

Start Date: 12/4/2012

Required Date: 12/4/2012

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:B Removed Manufacturing 06-10-03 JLM

IPP Rev:C ECN 1052 07-11-05 DD verified by:EC

IPP Rev:D ECN 12-670

Component Item ID/ Item Name	Replaceme Item ID	ent Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit		Qty Issued	Date Issued	Status
ANSICEA Bolt		Purchased	No			120	Each	302.0000	22	Qty 44	S	P	
			•	Location		Loc Qty	<u>L</u>	oc Code					
√n	s ax			GA		38							
	2 0			118	3352	38							
				ST350		264		y					
					0187	1				—— ———	_		
					3203	113		*	7 <u>4</u>	1X 3	P		
				123	3900	150			9 3	x .41			
INSC4A		Purchased	No			120	Each	2,790.0000	3	. 6 (2012	-17	4.
				Location		Loc Qty	<u>L</u> .	oc Code		(7		
	3 2>			FG		20			-				
SM	2 0			122	2814	20							
				FP001		838							
				123	1759	838				<u></u>			
				ST350		182							
					0187	31							
					0521	28							Ď.
					9769 205	38							
					205 556	61							
					2151	8 2							
					416	4							
					814	2							
				123	021	8							
				ST512		1750				_	1		
				123	759	1750				$\overline{\alpha}$	1		
						2750					1		

Page 1

			•	
NCR:	Yes /	No	WORK ORDER NON-CONFORMANCE	/ UPDATE

DQA:	Date:		

	, , , ,			.=						QA Closed:	Date	e:
Work Orde	r:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Orde					Rework	7	Skid-tube Crosstube				Water Jet	Engineering
Part N	0.				Scrap	1 1	Machining Small Fab			Pro	d. Eng. Coor.	Quality
					Use-as-is	┪┃┒		noforming	Finishing		e/Packaging	Other
NCR N	0.				Work Order Update	1 1		Large Fab	Composite	,	Supplier	
						-		v L	' -			
Root				Descri	ption of work order update	Init	tial	Act	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief	Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data					- ****							
Equip/Tooling												
Operator						1						
Material												
Setup											•	7
Other												
Process												•
Supplier												
Training												
Unapproved												
					F	AULT (CATE	GORY				
Landin	g Gear			_	General					-	_	
	Bending				Bend	∐G _i	rain			Ovalized		Pressure/Forced
	Centre No	ot Concer	ntric to	o/s	BOM/Route	Hа	ardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks			L	Broken/Damaged	In	specti	on Incomplete		Part Incorre	ct	Weld
L	Crushed/	Crimped,			Burrs	In	struct	ions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
L	Cuffs				Contamination	М	lainte	nance		Part Moved		**
	Heat Trea	nt			Countersink	Шм	islabe	led		Positioned V	Vrong	
L	Inspectio	n Strip in	Tube		Cut Too Short	М	isread			Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes		ffset					
L	Torque W	/aves in E	xtrusio	n [_	Drawing		ut of C	Calibration				
	Turning S	equence			Finish		ut of S	equence				
	Wave/Tw	ist in Tub	ne .		Folio	\Box	utcida	Dimensions				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Tuesday, December 04, 2012 1:50:36 PM

Work Order ID:

94275

Parent Item:

D412-705-015

Parent Item Name:

Driveshaft Tunnel Modification

Manufactured

No

No

No

120

Each

Each

Each

2.0000

Start Date: 12/4/2012

Start Qty: 2.00

Required Date: 12/4/2012

Required Qty: 2.00

Manufactured

Purchased

Location

GA

ST335

Location

ST316

Location

ST176

91845

123352

120930

123021

123664 123900

2 120

Loc Qty

1242

1242

120

Loc Oty

0.0000

Loc Code

Loc Code

1,257.0000

88x

5m3 2

5ms 200

No Purchased

15 3 12 120

Loc Qty

120

136

135

Each

Each 136.0000

Loc Code

Loc Code

423.0000

MS21060 13K

Purchased

No

Location Loc Qty ST291 423 119546

50 120142 121524 122141 70 123525 300

												DQA:	Date:		
NCR:	Yes	/ No					WORK ORDER NON-C	O	VFOR	MANCE / UI	PDATE	QA Closed:	Date:		
												QA Closed.	Date.	(6.5)	
Nork Ord	er:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
	•						Rework		Skid-tube Crosstube			7	Water Jet	Engineering	
Part	No.	1.2.1					Scrap		1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality	
							Use-as-is			noforming	Finishing	-	e/Packaging	Other	
NCR	No.						Work Order Update	100		Large Fab	Composite		Supplier	1	
														-	
Root					Des	-	otion of work order update	1	nitial	Α	ction	Sign &			
Cause		Date	Step	Qty			r Non-conformance	Ch	ief Eng	Des	cription	Date	Verification	QC Inspector	
oc/Data														4	
quip/Tooling															
perator	<u> </u>						,								
laterial	\vdash														
etup															
ther	-														
rocess	-														
upplier raining	-							1							
napproved															
паррточеа	1			L	l		F	AUL	T CATE	GORY		_i			
Land	ing (Gear					General							ė	
	Ť	Bending.					Bend		Grain			Ovalized		Pressure/Forced	
•		Centre No	t Concer	ntric to	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure	
		Cracks					Broken/Damaged		Inspect	on Incomplete		Part Incorre	ct	Weld	
		Crushed/0	Crimped.				Burrs		Instruct	ions Incomplete	e/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled	
		Cuffs					Contamination		Mainte	nance		Part Moved			
rē:		Heat Trea	t				Countersink		Mislabe	eled		Positioned V		7	
	L	Inspection		Tube			Cut Too Short		Misread	i	L	Power Loss/	Surge	Other	
		Ripples in					Drill Holes		Offset						
		Torque W	orque Waves in Extrusion Drawing					Out of Calibration							
	Turning Sequence Finish						Out of 9	Sequence							

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

REFERENCE ONLY

DART AEROSPACE LTD.

IIN-D412-705 Page 16 of 16

5.0 PARTS LIST

Qty -011	Qty -013	Qty -0.15	Qty -017	Qty -019	Qty -021	Qty -023	Part Number	Description
Х							D412-705-011	TWIN PAK E-Z ACCESS KIT
1	x						D412-705-013	INTAKE PLENUM ACCESS PANEL KIT
1		\mathbf{x}					D412-705-015	DRIVESHAFT TUNNEL MODIFICATION KIT
1			х				D412-705-017	N1 GEARBOX ACCESS PANEL KIT
1				X			D412-705-019	C-BOX OIL COOLER LINE SUPPORT ACCESS KIT
1		†			X		D412-705-021	OIL PRESSURE TRANSMITTER ACCESS KIT
1						Х	D412-705-023	OIL COOLER SUPPORT REMOVABLE LOWER PANEL KIT
	1						D3245-041	ACCESS PANEL ASSEMBLY, LH
	1						D3245-042	ACCESS PANEL ASSEMBLY, RH
	2						D3245-043	DOOR ASSEMBLY
	2						D3245-9	GASKET
	2						D3245-11	GASKET
	2						D3245-13	GASKET
			1				D3255-041	ACCESS PANEL ASSEMBLY, LH
			1				D3255-042	ACCESS PANEL ASSEMBLY, RH
			THE VALUE OF STREET	No. of the last of	e entro	or you discuss to	D3256-1	-ACCESS:PANED
		C L	T 78	produce v 180	Z.J.,	The second	D3256-3	-GASKET-
				1			D3259-041	ACCESS PANEL ASSEMBLY, LH
		† · · · · · · ·		1			D3259-042	ACCESS PANEL ASSEMBLY, RH
<u> </u>	_				1		D3307-041	ACCESS PANEL ASSEMBLY
	· · · · · · · · · · · · · · · · · · ·					30	AN3-3A	BOLT
		22	30	LIANT MERINA	 6	27 (4800) Street	AN3C-3A	■BOLT
		-3	and a man we are small	la communicación		CONTROL CONTRO	AN3C-4A	 #BØĿT
		 				30	AN960JD10	WASHER
	16	44=	=36=		=12=	Jan 10 10 10	■MS20427-M3-3-	RIVET.
						2	MS21051-L3K	NUT PLATÉ
	8	€22=	=1 8=	22.27	$=_{6}=$	TI-TEL	=MS21060=L3K====	=NUT=RLATE
· · · · · ·	├ -					18	MS21069-L3K	NUT PLATE
—		25 =	=30=		-6-		-MS9321:09	_WASHER

COPYRIGHT © 2004 BY DART AEROSPACE LTD •

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

Revision: C Date: 07.10.12